Applicants: Venkateswarlu Kolluri, et al. Attorney's Docket No.: 10984-540001

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AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (Currently Amended) An inferred relation weighting process for determining the a

strength of an inferred relation between a first Internet object and a second Internet object, which

where the first and second Internet objects are not directly linked, comprising

a first link weighting process for determining the a first strength of at least a first link

between said the first non-directly linked Internet object and a common object;

a second link weighting process for determining the a second strength of at least a second

link between said the second non directly linked Internet object and said the common object; and

an inferred relation weight calculation process for calculating the strength of said the

inferred relation based on the first strength and the second strength; of said at least a first link

and said at least a second link

wherein the first Internet object comprises a query for retrieving a document and the

second Internet object comprises a document.

2. (Currently Amended) The inferred relation weighting process of claim 1, wherein

said the common object comprises a plurality of discrete Internet objects, the plurality of Internet

objects being interconnected via discrete links with a discrete link, and said the plurality of

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discrete Internet objects and links connect said being connected to the first and second links[[,]];

and

wherein said the inferred relation weighting process further comprises:

an intermediate link weighting process for determining the a strength of each said

discrete link, wherein the strength of said the inferred relation is based also on a the

strength of each said discrete link and the strength of said at least a first link and said at

least a second link. (original)

3. (Cancelled)

4. (Currently Amended) The inferred relation weighting process of claim 1, wherein

said the common object includes comprises at least one Internet document.

5. (Currently Amended) The inferred relation weighting process of claim 2, further

comprising:

a link limitation process for specifying a link limit concerning the a maximum number of

links used to determine the inferred relation allowed to connect said first and second non-directly

linked Internet objects.

6. (Currently Amended) The inferred relation weighting process of claim 2, further

comprising:

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an incoming link analysis process for determining the a number of objects linked to each

of said plurality of Internet object objects, wherein the an incoming link value of each said a

target Internet object is directly proportional to the a number of objects linked to that the target

Internet object.

7. (Currently Amended) The inferred relation weighting process of claim 2, further

comprising:

an outgoing link analysis process for determining the a number of objects that each of

said plurality of Internet objects object is linked to, wherein the an outgoing link value of each

said a target Internet object is directly proportional to the a number of objects that said to which

the target Internet object is linked to.

8. (Currently Amended) The inferred relation weighting process of claim 2, wherein

said the inferred relation weight calculation process includes comprises a known relation

recalculation process for redefining the values of the strength corresponding to strengths of each

said discrete link links and to the first and second strengths strength of said at least a first link

and said at least a second link in response to the calculation of said the strength of said the

inferred relation.

9. (Currently Amended) The inferred relation weighting process of claim 1, wherein at

least one of said the Internet objects is comprises a transaction record.

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10. (Cancelled)

11. (Currently Amended) The inferred relation weighting process of claim 1, wherein at

least one of said the Internet objects is comprises an Internet document.

12. (Currently Amended) The inferred relation weighting process of claim 1, wherein

said the strength of said the inferred relation is corresponds to a relevance score.

13. (Currently Amended) The inferred relation weighting process of claim 9, wherein

said the relevance score is comprises a percentage.

14. (Currently Amended) An inferred relation weighting process for determining a the

strength of an inferred relation between a first Internet object and a second Internet object, where

the first and second Internet objects which are not directly linked, comprising:

a first link weighting process for determining the a first strength of at least a first link

between said the first non-directly linked Internet object and a plurality of common objects;

a second link weighting process for determining the a second strength of at least a second

link between said the second non-directly linked Internet object and said the plurality of common

objects[[;]], wherein said the plurality of common objects comprises a first common object

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connected to said the first link[[;]], a second common object connected to said the second link,

and an intermediate link interconnecting said between the first and second common objects;

an intermediate link weighting process for determining the a strength of said the

intermediate link; and

an inferred relation weight calculation process for calculating the strength of said the

inferred relation based on the first strength, the second strength of said at least a first link, said at

least a second link, and said the strength of the intermediate link;

wherein the first Internet object comprises a query for retrieving a document and the

second Internet object comprises a document.

15. (Currently Amended) The inferred relation weighting process of claim 14, further

comprising:

a link limitation process for specifying a link limit concerning the a maximum number of

links used to determine the inferred relation allowed to connect said first and second non-directly

linked Internet objects.

16. (Currently Amended) The inferred relation weighting process of claim 14, wherein

said the plurality of common objects includes comprises at least one Internet document.

17. (Currently Amended) The inferred relation weighting process of claim 14, wherein

said the intermediate link comprises at least one additional common object and a plurality of sub-

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links for connecting said the at least one additional common object to said the first and second common objects[[,]]; and

wherein said the intermediate link weighting process determines the strength of said the intermediate link based on the individual strengths of said the sub-links.

18. (Currently Amended) The inferred relation weighting process of claim 17, further comprising:

an incoming link analysis process for determining the a number of objects linked to each of said plurality of Internet object and objects and each said common object, wherein an the incoming link value of each said Internet a target object and each said common object is directly proportional to the number of objects linked to that the target object.

19. (Currently Amended) The inferred relation weighting process of claim 17, further comprising:

an outgoing link analysis process for determining the a number of objects that each of said plurality of Internet objects object and each said common object is linked to, wherein an the outgoing link value of each said Internet a target object and each said common object is directly proportional to the a number of objects that said to which the target object is linked to.

20. (Currently Amended) The inferred relation weighting process of claim 17, wherein said the inferred relation weight calculation process includes comprises a known relation

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recalculation process for redefining the values corresponding to strengths of the sub-links and to

the first and second strengths of the strength of each said sub-link and the strength of said at least

a first link and said at least a second link in response to the calculation of said the strength of said

the inferred relation.

21. (Currently Amended) The inferred relation weighting process of claim 14, wherein

at least one of said the Internet objects is comprises a transaction record.

22. (Cancelled)

23. (Currently Amended) The inferred relation weighting process of claim 14, wherein

at least one of said the Internet objects is comprises an Internet document.

24. (Currently Amended) The inferred relation weighting process of claim 14, wherein

said the strength of said the inferred relation is corresponds to a relevance score.

25. (Currently Amended) The inferred relation weighting process of claim 24, wherein

said the relevance score is comprises a percentage.

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26. (Currently Amended) A method for determining the a strength of an inferred relation between a first Internet object and a second Internet object, which where the first and second Internet objects are not directly linked, the method comprising:

determining the a first strength of at least a first link between the first non-directly linked Internet object and a common object;

determining the a second strength of at least a second link between the second nondirectly linked Internet object and the common object; and

calculating the a strength of the inferred relation based on the first strength and the second strength; of the at least a first link and the at least a second link

wherein the first Internet object comprises a query for retrieving a document and the second Internet object comprises a document.

27. (Currently Amended) The method for determining the strength of an inferred relation of claim 26, wherein the common object comprises a plurality of discrete Internet objects, the plurality of Internet objects being connected via discrete links each interconnected with a discrete link, and the plurality of discrete Internet objects and links connect the first and second links, wherein determining the strength of the inferred relation further comprises:

determining the a strength of each discrete link, wherein the strength of the inferred relation is based also on the a strength of each discrete link and the strength of the at least a first link and the at least a second link.

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28. (Currently Amended) The method for determining the strength of an inferred relation of claim 27, further comprising:

specifying a link limit concerning the a maximum number of links used to determine the inferred relation allowed to connect the first and second non-directly linked Internet objects.

29. (Currently Amended) A computer program product residing on a computer machinereadable medium having for storing a plurality of instructions for implementing an inferred relation weighting process, the inferred relation weighting process for determining a strength of an inferred relation between a first Internet object and a second Internet object, where the first and second Internet objects are not directly linked, wherein the instructions stored thereon which, when executed by <u>a</u> the processor, cause that the processor to:

determine the a first strength of at least a first link between the first non directly linked Internet object and a common object;

determine the a second strength of at least a second link between the second non-directly linked Internet object and the common object; and

calculate the strength of the inferred relation based on the first strength and the second strength; of the at least a first link and the at least a second link

wherein the first Internet object comprises a query for retrieving a document and the second Internet object comprises a document.

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30. (Currently Amended) The computer program product machine-readable medium of claim 29, wherein said the computer machine-readable medium is comprises a random access memory (RAM).

- 31. (Currently Amended) The computer program product machine-readable medium of claim 29, wherein said the computer machine-readable medium is comprises a read only memory (ROM).
- 32. (Currently Amended) The computer program product machine-readable medium of claim 29, wherein said the computer machine-readable medium is comprises a hard disk drive.
- 33. (Currently Amended) An apparatus for executing an inferred relation weighting process for determining a strength of an inferred relation between a first Internet object and a second Internet object, where the first and second Internet objects are not directly linked, the apparatus comprising:

a processor and memory to store instructions that are executable; and configured to: at least one processing device to execute the instructions to:

determine the a first strength of at least a first link between the first non directly linked Internet object and a common object;

determine the a second strength of at least a second link between the second nondirectly linked Internet object and the common object; and

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> calculate the strength of the inferred relation based on the first strength and the second strength of the at least a first link and the at least a second link;

wherein the first Internet object comprises a query for retrieving a document and the second Internet object comprises a document.

- 34. (Currently Amended) The processor and memory apparatus of claim 33, wherein said the processor and memory are incorporated into a personal computer.
- 35. (Currently Amended) The processor and memory apparatus of claim 33, wherein said the processor and memory are incorporated into a network server.
- 36. (Currently Amended) The processor and memory apparatus of claim 33, wherein said the processor and memory are incorporated into a single board computer.